




For Low Pressure (Air)

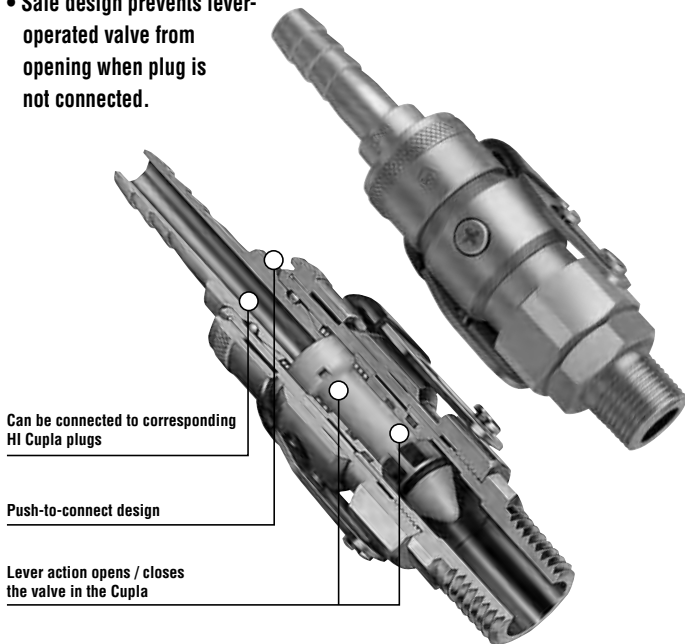
Purge Hi Cupla

Air line coupling with residual pressure release function

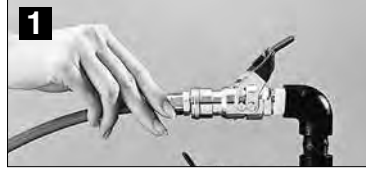
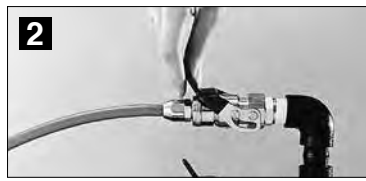
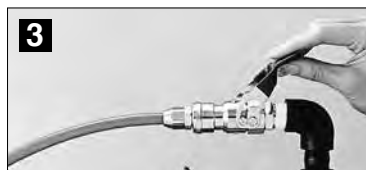
Working pressure  1.0 MPa (10 kgf/cm ²)	Valve structure  One-way shut-off	Applicable fluid  Air
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Push-to-connect operation even with existing internal pressure! Eliminates unpleasant popping noise and hose whip motion on disconnection.

- Just push in the plug for connection regardless of internal pressure in socket.
- Even after connection, lever operation gives perfect control over valve opening/closing.
- In disconnection, lever action releases residual air pressure in the plug without unpleasant popping noise and hose whip motion.
- Safe design prevents lever-operated valve from opening when plug is not connected.



How to Operate

	1 Just push the plug into socket. (In this stage the valve of the socket is not open.)
	2 Turning down the lever opens the valve and allows the fluid flow. (The turned-down lever works as a sleeve stopper and prevents disconnection.)
	3 When the lever is pulled up, residual air pressure in the plug is purged without unpleasant popping noise and hose whip motion on disconnection. In this stage, the socket valve is still closed.

Specifications

Body material	Brass (Chrome plated)			
Size (Thread)	1/4", 3/8", 1/2", 3/4"			
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	1.0	10	10	145
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material

Max. Tightening Torque

Nm {kgf·cm}

Model	PV-20SM	PV-30SM	PV-40SM	PV-400SM	PV-600SM
Torque	9 (92)	11 (112)	30 (306)	30 (306)	50 (510)

Flow Direction

Fluid must run from socket to plug.



Interchangeability

Models 20, 30 and 40 can be connected to plugs of Hi Cupla Models 10, 17, 20, 30 and 40. Models 400, 600 can be connected to plugs of Hi Cupla Models 400, 600 and 800. Interchangeable with each corresponding Hi Cupla Series models.

Min. Cross-Sectional Area

(mm²)

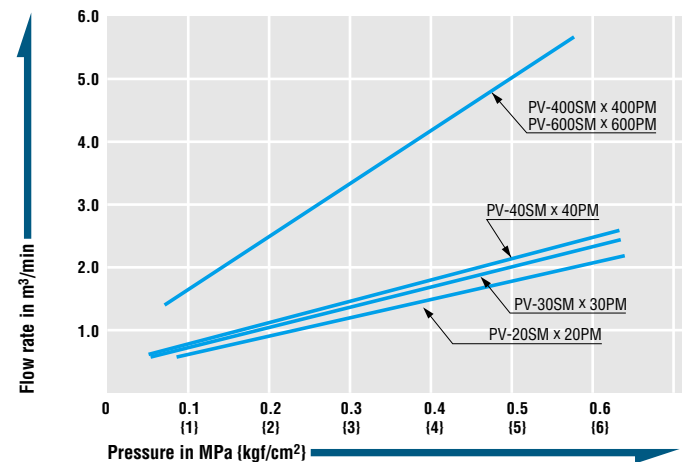
Model	PV-20SM	PV-30SM	PV-40SM	PV-400SM	PV-600SM
Min. cross-sectional area	38	41	41	94	94

Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

Pressure - Flow Characteristics

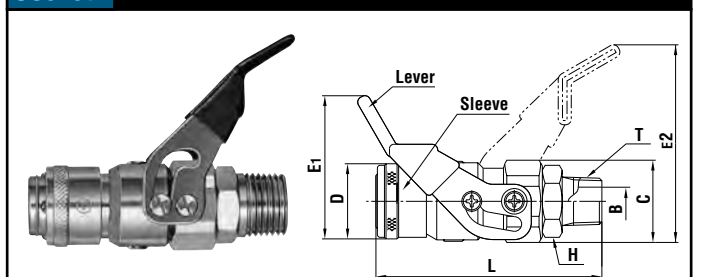
[Test conditions] •Fluid : Air •Temperature : Room temperature



Models and Dimensions

WAF : WAF stands for width across flats.

Socket



Model	Application	Mass (g)	Dimensions (mm)							
			L	øD	E ₁	E ₂	H(WAF)	øC	T	øB
PV-20SM	Rc 1/4	225	(79)	26.5	(50.5)	(70)	Hex.22	29	R 1/4	7
PV-30SM	Rc 3/8	229	(80)	26.5	(50.5)	(70)	Hex.22	29	R 3/8	10
PV-40SM	Rc 1/2	235	(82)	26.5	(50.5)	(70)	Hex.22	29	R 1/2	14
PV-400SM	Rc 1/2	411	(94)	35	(61.5)	(82)	Hex.30	37.5	R 1/2	13
PV-600SM	Rc 3/4	424	(97)	35	(61.5)	(82)	Hex.30	37.5	R 3/4	18

Before use, please be sure to read "Safety Guide" described at the end of this book and "Instruction Sheet" that comes with the products.

For Low Pressure (Air)

Purge Line Cupla

Simple air line coupling manifold with residual pressure release function

Working pressure



Valve structure

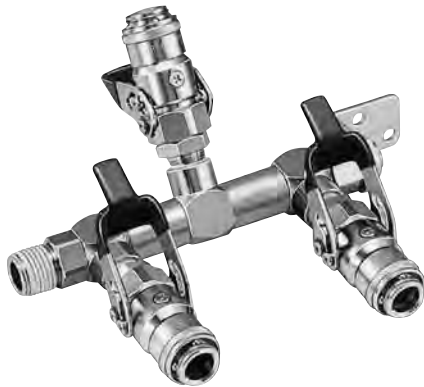


Applicable fluid



Residual pressure can be released by a mere lever turn. Very smooth connection/disconnection!

- Single action, just push in the plug to connect regardless of internal pressure in socket.
- No unpleasant noise of air pressure discharge and no hose whip motion on disconnection for safety operation.
- Safe design – socket valve will not open or close unless plug is connected.
- Even after connection, a lever turn will open/close valve with perfect control of air flow or line shut-off.
- Enables simultaneous air supply to three outlets from a single air line.
(A single outlet Purge Hi Cupla is also available – see the pages of Purge Hi Cupla for details.)



Application Example



Specifications

Body material	Brass (Chrome plated)			
Size	Inlet	R 1/2		
	Outlet	Socket (PV-30SM)		
Pressure unit	MPa	kgf/cm ²	bar	PSI
Working pressure	1.0	10	10	145
Seal material	Seal material	Mark	Working temperature range	Remarks
Working temperature range	Nitrile rubber	NBR (SG)	-20°C to +60°C	Standard material

Max. Tightening Torque

Nm (kgf·cm)

Size (Thread)	1/2"
Torque	30 (306)

Flow Direction

Fluid must run from the intake port to the outlet ports. Please refer to the flow directions (arrows) on the "Models and Dimensions."

Interchangeability

Can be connected with plugs for Hi Cupla Models 10, 17, 20, 30 and 40. Interchangeable with each corresponding Hi Cupla Series models.

Min. Cross-Sectional Area

(mm²)

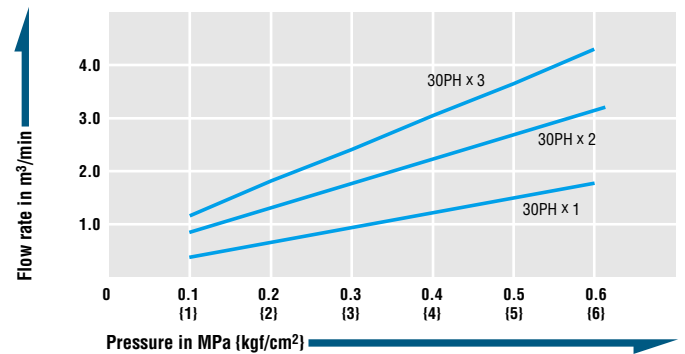
Min. cross-sectional area	41
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Suitability for Vacuum

Not suitable for vacuum application in either connected or disconnected condition.

Pressure - Flow Characteristics

[Test conditions] • Fluid : Air • Temperature : Room temperature



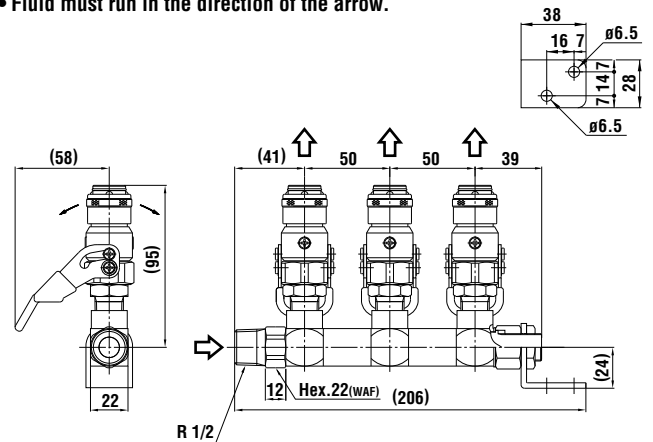
Models and Dimensions

WAF : WAF stands for width across flats.

Socket RE-PV-30 type (For three outlets)

Mass : 1,090g

- Fluid must run in the direction of the arrow.



Dimensions (mm)